

What is claimed is:

1. A paper discriminator for discriminating papers being conveyed along a conveyance path, the paper discriminator comprising:

a line sensor arranged at a first position on the conveyance path, the line sensor acquiring first data on the entire surface of paper;

10 a point sensor arranged at a second position on the conveyance path, the point sensor acquiring second data on a part of the paper,;

a memory for storing the first data and the second data in correlation with a common coordinate plane;

15 a data processor for acquiring predetermined positional information of the first data on the coordinate plane and acquiring the position of the second data with respect to the position of the first data on the basis of the positional information;

20 a storage unit for storing first reference data of the entire surface of the paper corresponding to the first data and second reference data of the entire surface of the paper corresponding to the second data; and

25 a discriminator for comparing the first data with the first reference data and comparing the second data with a part corresponding to the position of the second data in the second reference data, and for discriminating the paper based on the results of the comparison.

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2. The paper discriminator according to claim 1, further comprising:

a driver for controlling an operation start time of
5 the line pointer or the point sensor on the basis of the
difference of distance between the first position and the
second position in the conveyance direction so as to allow
the first data and the second data to be correlated on the
common coordinate plane.

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3. The paper discriminator according to claim 1, wherein
the positional information includes an offset relative to the
reference position on the coordinate plane and an inclination
relative to the reference direction.

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4. The paper discriminator according to claim 3, wherein
the first reference data and the second reference data are
data for the reference position and in the reference direction,
and the data processor corrects the first data and the second
20 data into data for the reference position and in the reference
direction on the coordinate plane based on the offset and the
inclination.

5. The paper discriminator according to claim 1, wherein
25 the line sensor is an image sensor for taking image of the
papers, and the point sensor is a magnetic sensor for detecting
the amount of a magnetism of the papers.